NATIONAL STANDARDS COMMISSION

8/35
5/1/87

NATIONAL MEASUREMENT (PATTERNS OF INSTRUMENTS) REGULATIONS

REGULATION 9

CERTIFICATE OF APPROVAL No 8/35

This is to certify that an approval for use for trade has been granted in respect of the pattern of the

Coulstock Model LFC 001 Farm Milk Tank

submitted by L F Coulstock
73-75 Viewhill Crescent
Eltham Victoria 3095.

CONDITIONS OF APPROVAL

General:

This approval is subject to review on or after 1/12/91.
This approval expires in respect of new instruments on 1/12/92.

Instruments purporting to comply with this approval shall be marked NSC No 8/35.

This approval may be withdrawn if instruments are constructed other than as described in the drawings and specifications lodged with the Commission.

The Commission reserves the right to examine any instrument purporting to comply with this approval.

Special:

Instruments purporting to comply with this approval shall conform with the relevant requirements of Australian Standard AS 1187-1977 for Refrigerated Farm Milk Tank-units.

Signed

J. Birch

Executive Director

Descriptive Advice

Pattern: approved 3/11/86

- A farm milk tank of 10100 L capacity.

Technical Schedule No 8/35 describes the pattern.

...../2

Filing Advice

The documentation for this approval comprises:

Certificate of Approval No 8/35 dated 5/1/87
Technical Schedule No 8/35 dated 5/1/87
Test Procedure No 8/35 dated 5/1/87
Figures 1 to 4 dated 5/1/87

TECHNICAL SCHEDULE No 8/35

Pattern: Coulstock Model LFC 001 Farm Milk Tank

Submittor: L F Coulstock
73-75 Viewhill Crescent
Eltham Victoria 3095.

1. Description of Pattern

(i) The pattern (Figures 1 to 3) is a horizontal cylindrical farm milk tank of 10100 L capacity. The tank incorporates a clean-in-place facility and the refrigeration of the milk is achieved externally prior to transferring the milk into the tank.

(ii) The tank is fabricated from type 321 stainless steel and is mounted on two fixed concrete supports cushioned with wooden blocks and vapour sealed. The height of the supports is 1200 mm at the outlet end of the tank and 1250 mm at the rear end of the tank giving a slope towards the outlet. The tank is a horizontal cylinder sheathed in an outer casing of stainless steel; the cavity between is filled with insulating material.

(iii) The level marks are on the external surface of the tank at the widest horizontal cross-section, and the liquid level represented by the marks corresponds with the line marked 'level mark', engraved on the back of the dipstick (Figure 4).

1.1 Markings

The following is marked on a nameplate permanently attached to the instrument in a clearly visible location:

Manufacturer's name or mark
Model number
NSC approval number NSC No 8/35
Maximum capacity

In addition, the dipstick is marked with the manufacturer's name or mark, serial number corresponding with the tank number and the handle of the dipstick has provision for a Weights and Measures lead seal.

1.2 Verification Provision

Provision is made for a verification mark to be applied.

TEST PROCEDURE No 8/35

1. Check that the tank is in its calibrated attitude by reference to the level marks which should all be coincident in the horizontal plane within ± 1 mm.

   This may be checked using a Roman level.

2. The capacity at any graduation mark shall then be measured by one of the following methods:

   Note: The maximum permissible error is ± 1 graduation.

(a) Measurement of the quantity of water delivered from the vessel.

   (i) The vessel shall be filled to the relevant graduation mark.

   (ii) The vessel shall then be emptied through the outlet and allowed to drain for 30 s after the continuous flow of water has ceased.

   (iii) The quantity of water so delivered shall be within the maximum permissible error.

(b) Measurement of the quantity of water required to fill the vessel.

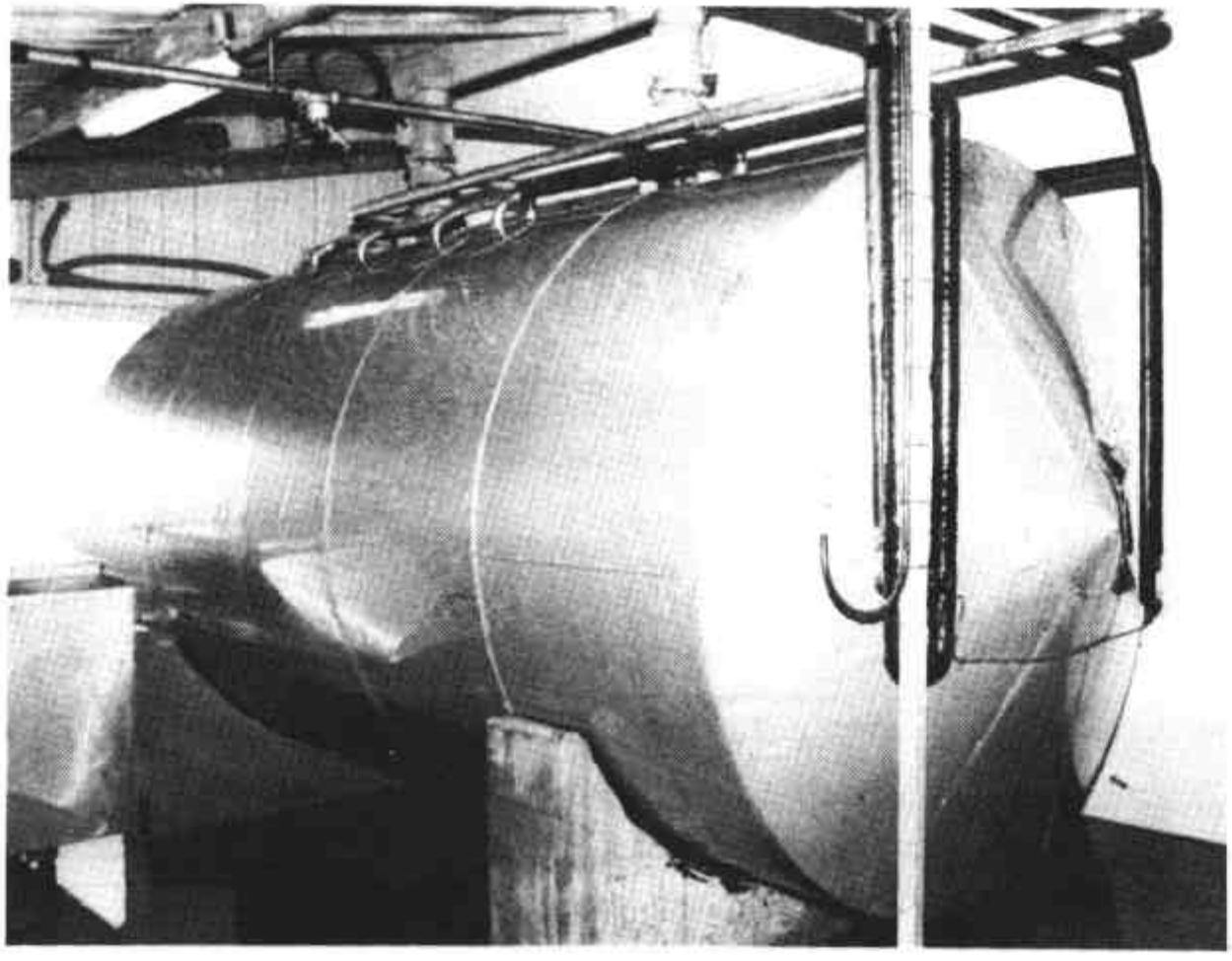
   (i) The interior surfaces of the vessel shall be thoroughly wetted with water to the level of the relevant graduation.

   (ii) The vessel shall then be emptied through the outlet and allowed to drain for 30 s after the continuous flow of water has ceased.

   (iii) After the outlet has been closed, the capacity at the relevant graduation mark shall be determined by transferring water into the vessel until the vessel is filled to that mark.

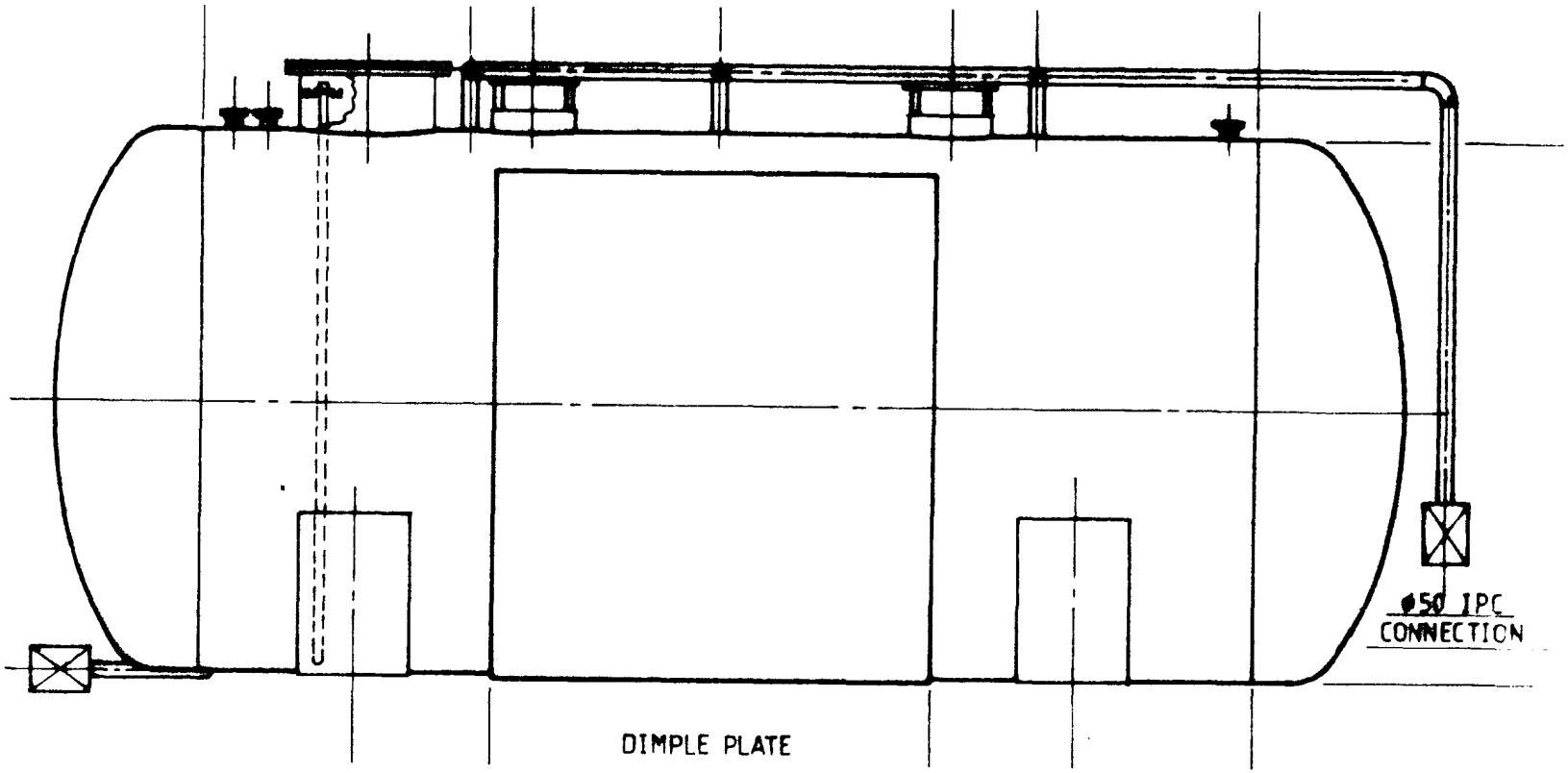
   The quantity of added water being measured, and the value indicated by the graduation mark, shall agree to within the maximum permissible error.

FIGURE 8/35 - 1



Coulstock LFC 001 Farm Milk Tank

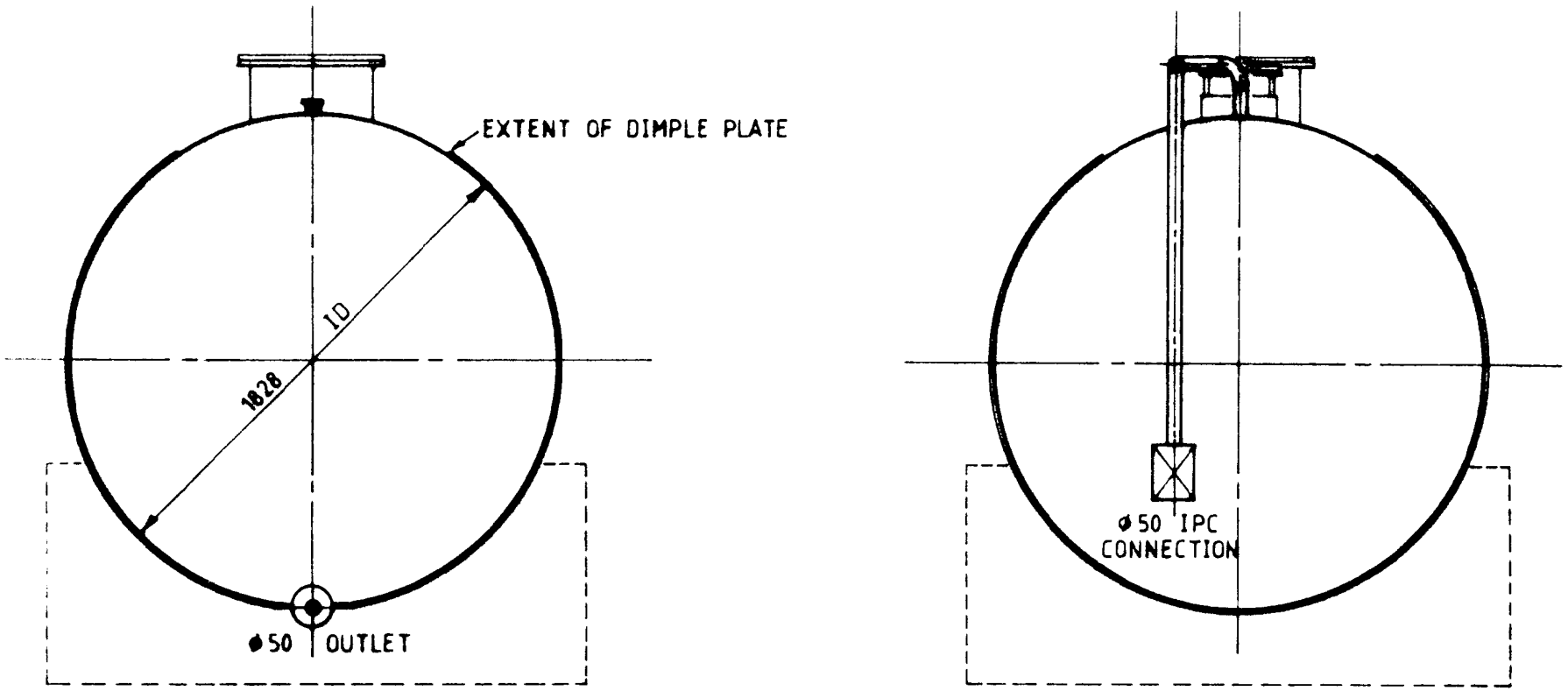
FIGURE 8/35 - 2



Side Elevation

8/35
5/1/87

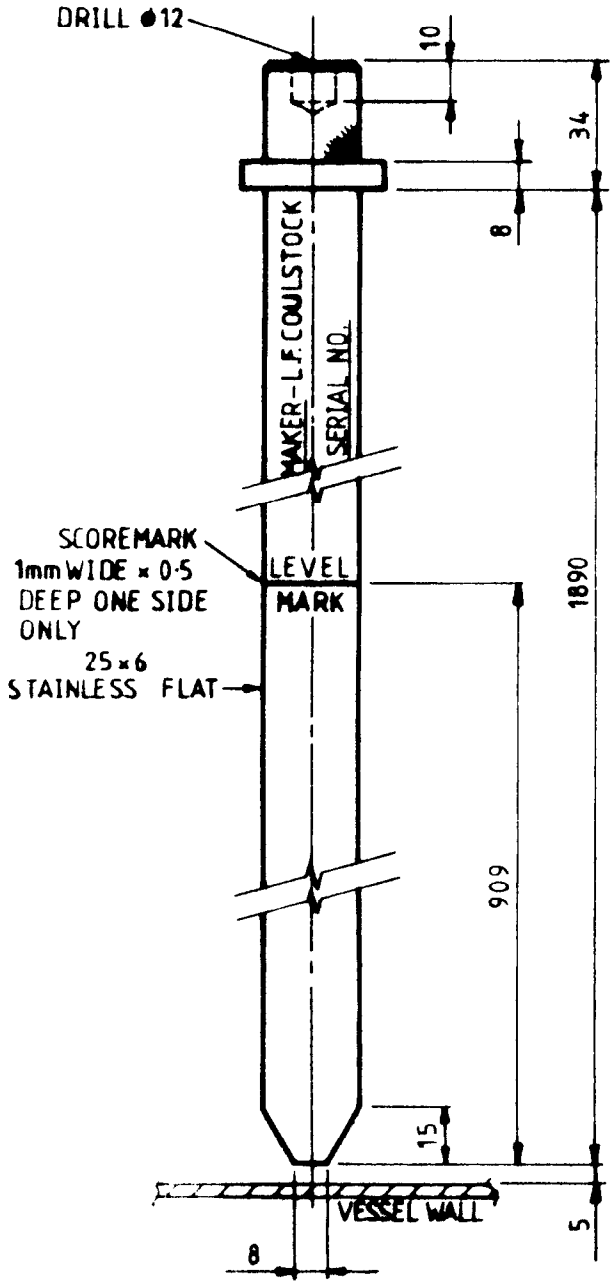
FIGURE 8/35 - 3



End Elevation

8/35
5/1/87

FIGURE 8/35 - 4



Dipstick